

Lokstadt Pavilion, Winterthur

2021



Where locomotives and machinery were once built, a new neighborhood is now taking shape right next to the Winterthur train station. A dome-shaped pavilion roof using TS3 technology has been constructed in front of the “Krokodil” building.

The Project

The cylindrical TS3 pavilion is the new gathering place for the “Krokodil” residents, who will be moving into their new wooden homes in the coming months. The goal was a lightweight pavilion with delicate steel supports and a gently curved wooden roof on top. The side walls, made of curved expanded metal, are designed to be sliding, making the pavilion versatile in its use.

Construction data

- Number of floors: 1
- Gross floor area: 98 m²
- Cross-laminated timber: 12 m³
- TS3 technology: 83 m³

The Construction Method

After erecting the 12 steel columns and the circular steel ring beam, the roof—a dome (spherical section) made of trapezoidally cut cross-laminated timber panels with a polygonal center section—was installed. The factory-cut and pre-treated cross-laminated timber panels were placed on a temporary scaffold and bonded together using TS3 joint adhesive. The gap around the steel frame was filled with cement grout so that forces could be transferred to the steel frame without slippage.

Client

Implenia Switzerland AG, Rümlang